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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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of

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Attorney Docket Number

ULT-005-2C1P

Application Number

09/663,658

Filing Date

9/15/2000

First Named Inventor:

Malcolm G. Smith, Sr.

Examiner: April A. Nowlin

GROUP: 2876

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cited No. <sup>1</sup>	Document Number Number - Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
AT	A001	US- 1,756,547	04/1930	Hansen	
	A002	US-3,677,843	7/17/1972	Reiss	
	A003	US-3,864,755	2/1975	Hargis	
	A004	US-4,058,839	11/1977	Darjany, John C.	
	A005	US-4,076,125	2/28/1978	Ohsaki et al.	
	A006	US-4,100,689	7/1978	Broune	
AT	A007	US-4,104,682	8/1/1978	Lehner et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Cntry Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T <sup>6</sup>
AT	A008	WO 9210485	12/1992			
AT	A009	JP 10144391 A	5/1998	Kanda		

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AT	(One Page) Advertising Brochure, Iomega Klik! PC Card Drive (40 MB Disk) Iomega Corporation, 1999
AT	Gooch et al. "A High Resolution Flying Magnetic Disk Recording System With Zero Reproduce Spacing Loss" Pages 4545-4554, IEEE Transactions on Magnetis, Volume 27, No. 6, November 1991
AT	One (1) Page Advertising Brochure, SysTECH, Wallet Size CDROM, Copyright 1999
AT	Three (3) Pages / Gold CD Mini ROM (Picture), Back/Front Packaging for CD Mini ROM AOL, America On Line

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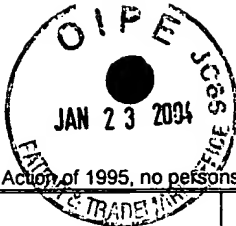
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AT	A010	US-4,141,400	2/27/1979	Mangan	
	A011	US-4,197,988	4/15/1980	Moss et al.	
	A012	US-4,209,811	6/1/1980	Blazevic	
	A013	US-4,277,809	7/7/1981	Fisher et al.	
	A014	US-4,302,523	11/1/1981	Audran et al.	
	A015	US-4,318,136	3/2/1982	Jeffers	
	A016	US-4,403,138	9/1/1983	Battarel et al.	
	A017	US-4,450,955	5/29/1984	Featherston	
	A018	US-4,503,125	3/1/1985	Nelson et al.	
	A019	US-4,518,627	5/1/1985	Foley et al.	
	A020	US-4,530,016	7/16/1985	Sawazaki	
	A021	US-4,535,369	8/13/1985	Sawazaki	
	A022	US-4,581,523	4/1/1986	Okuno	
AT	A023	US-4,585,929	4/29/1986	Brown et al.	

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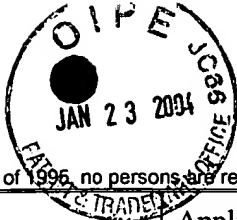
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Cntry Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T <sup>6</sup>

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EXAMINER SIGNATURE: April Taylor	DATE CONSIDERED: 7/22/04
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AT	A024	US-4,592,042	5/1/1986	Lemelson et al.	
	A025	US-4,598,196	7/1/1986	Pierce et al.	
	A026	US-4,609,812	9/2/1986	Drexler	
	A027	US-4,612,436	9/16/1986	Okada	
	A028	US-4,620,727	11/4/1986	Stockburger et al.	
	A029	US-4,659,915	4/1/1987	Flies	
	A030	US-4,672,182	6/1/1987	Hirokawa	
	A031	US-4,683,371	7/1/1987	Drexler	
	A032	US-4,687,712	8/18/1987	Sugita et al.	
	A033	US-4,701,601	10/20/1987	Francini et al.	
	A034	US-4,707,593	11/1/1987	Murata et al.	
	A035	US-4,718,697	1/1/1988	Berardus van Amelsfort	
	A036	US-4,731,645	3/1/1988	Parmentier et al.	
AT	A037	US-4,754,128	6/1/1988	Takeda et al.	

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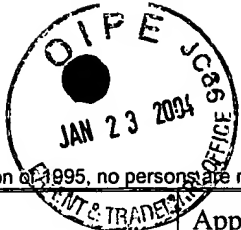
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PTO/SB/08A (08-03)

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AT	A038	US-4,774,618	9/27/1988	Raviv	
	A039	US-4,777,540	10/11/1988	McCoy	
	A040	US-4,780,604	10/1988	Hasegawa et al.	
	A041	US-4,786,564	11/22/1988	Chen et al.	
	A042	US-4,791,283	12/13/1988	Burkhardt	
	A043	US-4,812,633	3/1989	Vogelgesang et al.	
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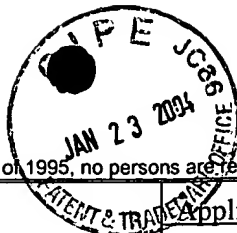
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AT	A051	US-4,931,623	6/5/1990	Nakamura et al.	
	A052	US-4,937,438	6/26/1990	Warwick et al.	
	A053	US-4,978,401	12/18/1990	Bonomi	
	A054	US-4,998,009	03/1991	Iijima et al.	
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	A057	US-5,099,111	03/1992	Takakura et al.	
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	A060	US-5,206,494	04/1993	Metzger	
	A061	US-5,227,212	07/1993	Ahlert et al.	
	A062	US-5,309,388	5/3/1994	Maruyama et al.	
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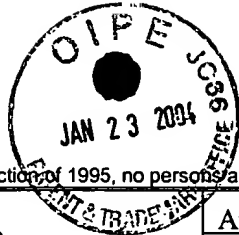
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A1	A064	US-5,321,243	6/14/1994	Groves et al.	
	A065	US-5,336,871	10/9/1994	Colgate Jr.	
	A066	US-5,362,952	11/8/1994	Nair et al.	
	A067	US-5,396,369	5/7/1995	Deland Jr. et al.	
	A068	US-5,396,545	3/7/1995	Nair et al.	
	A069	US-5,397,886	3/14/1995	Mos et al.	
	A070	US-5,408,384	04/1995	Gannyo et al.	
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	A074	US-5,431,746	7/11/1995	Manning et al.	
	A075	US-5,452,143	9/19/1995	Kamagami	
	A076	US-5,466,918	11/14/1995	Ray et al.	
A1	A077	US-5,480,685	1/2/1996	Suzuki et al.	

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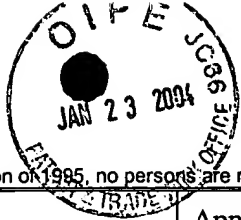
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of

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Attorney Docket Number

ULT-005-2C1P

Application Number

09/663,658

Filing Date

9/15/2000

First Named Inventor:

Malcolm G. Smith, Sr.

Examiner: April A. Nowlin

GROUP: 2876

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cited No. <sup>1</sup>	Document Number Number - Kind Code <sup>2(f) known</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
<i>AT</i>	A078	US-5,492,745	2/1996	Yokoyama	
	A079	US-5,509,083	4/16/1996	Abtahi et al.	
	A080	US-5,521,774	5/28/1996	Parks et al.	
	A081	US-5,530,232	6/25/1996	Taylor	
	A082	US-5,535,078	7/9/1996	Warwick	
	A083	US-5,557,089	9/17/1996	Hall et al.	
	A084	US-5,559,885	9/24/1996	Drexler et al.	
	A085	US-5,588,763	12/31/1996	Nubson et al.	
	A086	US-5,598,474	1/28/1997	Johnson	
	A087	US-5,609,253	3/11/1997	Goade, Sr.	
	A088	US-5,612,526	3/18/1997	Oguchi et al.	
	A089	US-5,626,970	5/1997	Hedgcoth	
	A090	US-5,637,174	6/10/1997	Field et al.	
<i>AT</i>	A091	US-5,679,942	10/21/1997	Toyama	

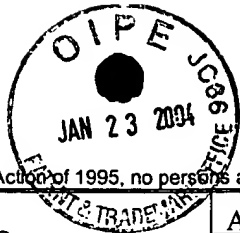
**FOREIGN PATENT DOCUMENTS**

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**EXAMINER SIGNATURE: *April Taylor*DATE CONSIDERED: *3/22/01*

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Attorney Docket Number

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<i>AT</i>	A092	US-5,679,945	10/21/1997	Renner et al.	
	A093	US-5,696,369	12/1997	Watanabe	
	A094	US-5,698,839	12/17/1997	Jagielinski	
	A095	US-5,713,406	2/3/1998	Drury	
	A096	US-5,714,747	2/3/1998	West et al.	
	A097	US-5,720,500	2/24/1998	Okazaki et al.	
	A098	US-5,723,033	3/3/1998	Weiss	
	A099	US-5,734,154	3/31/1998	Jachimowicz et al.	
	A100	US-5,738,945	4/14/1998	Lal et al.	
	A101	US-5,748,737	5/5/1998	Daggar	
	A102	US-5,756,220	5/1998	Hoshino et al.	
	A103	US-5,763,862	6/9/1998	Jachimowicz et al.	
	A104	US-5,770,942	6/23/1998	Taguchi et al.	
<i>AT</i>	A105	US-5,777,306	7/7/1998	Masuda	

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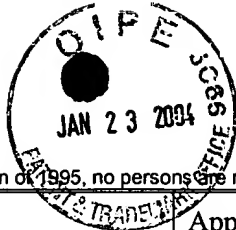
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Cntry Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T <sup>6</sup>

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First Named Inventor:

Malcolm G. Smith, Sr.

Examiner: April A. Nowlin

GROUP: 2876

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<i>AN</i>	A106	US-5,789,733	8/4/1998	Jachimowicz et al.	
	A107	US-5,801,368	9/1998	Hayashi et al.	
	A108	US-5,825,393	10/20/1998	Kocznar et al.	
	A109	US-5,828,053	10/27/1998	Kinugasa	
	A110	US-5,834,756	11/10/1998	Gutman et al.	
	A111	US-5,843,565	12/1/1998	Davies et al.	
	A112	US-5,844,218	12/1/1998	Kawan et al.	
	A113	US-5,844,230	12/1/1998	Lalonde	
	A114	US-5,851,688	12/22/1998	Chen et al.	
	A115	US-5,852,289	12/22/1998	Masahiko	
	A116	US-5,857,079	1/5/1999	Claus et al.	
	A117	US-5,859,419	1/12/1999	Wynn	
	A118	US-5,861,220	1/19/1999	Coughlin	
<i>AN</i>	A119	US-5,862,174	1/19/1999	Yokota et al.	

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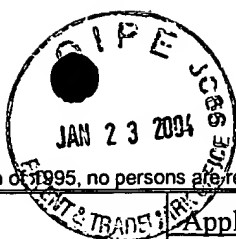
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AT	A120	US-5,866,891	2/2/1999	Fujimoto et al.	
	A121	US-5,869,823	2/9/1999	Bublitz et al.	
	A122	US-5,880,445	3/9/1999	Mori et al.	
	A123	US-5,883,377	3/16/1999	Chapin, Jr.	
	A124	US-5,884,271	3/1999	Pitroda	
	A125	US-5,886,333	3/1999	Miyake	
	A126	US-5,889,273	3/1999	Goto	
	A127	US-5,895,903	4/1999	Abe et al.	
	A128	US-5,895,909	4/1999	Yoshida	
	A129	US-5,898,612	4/1999	Chen et al.	
	A130	US-5,901,012	5/1999	Ishida	
	A131	US-5,901,303	5/1999	Chew	
AT	A132	US-5,939,202	8/1999	Ataka et al.	

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<i>AT</i>	A133	US-5,941,375	8/1999	Kamens et al.	
	A134	US-5,979,774	11/1999	Urushibata	
	A135	US-5,997,042	12/1999	Blank	
	A136	US-6,079,621	6/2000	Vardanyan et al.	
	A137	US-6,116,655	9/2000	Thouin et al.	
	A138	US-6,131,816	10/2000	Smith, Sr.	
	A139	US-6,186,398	2/2001	Kato et al.	
	A140	US-6,196,047	3/2001	Carnegie et al.	
	A141	US-6,238,809	5/2001	Wu et al.	
	A142	US-6,254,713	7/2001	Riehle	
	A143	US-6,268,919	7/2001	Meeks et al.	
<i>AT</i>	A144	US-6,301,068	10/2001	Ionescu	

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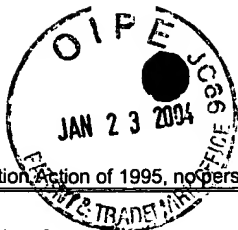
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	<b>Filing Date</b>	9/15/2000
	<b>First Named Inventor:</b>	Malcolm G. Smith, Sr.
	<b>Examiner: April A. Nowlin</b>	<b>GROUP: 2876</b>

Sheet	12	of	14	<b>Attorney Docket Number</b>	<b>ULT-005-2C1P</b>
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A7	A145	US-6,311,893	11/2001	Liu et al.	
	A146	US-6,378,037	4/2002	Hall	
	A147	US-6,398,114	6/2002	Nishikawa et al.	
	A148	US-D264,853	6/1982	Scavino et al.	
	A149	US-D293,694	1/1988	Alden et al.	
	A150	US-D305,887	2/1990	Nishimura	
	A151	US-D328,457	8/1992	Matsuzaka	
	A152	US-D408,377	4/20/1999	Ferchau et al.	
	A153	US-D410,769	6/1999	Dorizas	
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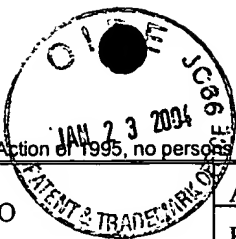
**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Cntry Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T <sup>6</sup>
A7	A159	FR 2505523	12/11/1982	Widmer MJF		

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**Bhushan, Bharat, *Tribology and Mechanics of Magnetic Storage Devices*, New York: Springer-Verlag, pp. 599, 629-638**EXAMINER SIGNATURE:** April Taylor**DATE CONSIDERED:** 3/22/04

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number 09/663,658

Filing Date 9/15/2000

First Named Inventor: Malcolm G. Smith, Sr.

Examiner: April A. Nowlin GROUP: 2876

Sheet

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of

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Attorney Docket Number

ULT-005-2C1P

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cited No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
A1	A160	US-5,041,922	08/20/1991	Wood et al.	
	A161	US-5,055,155	10/08/1991	Crotty et al.	
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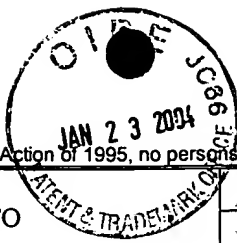
**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

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AT	A173	US-5,288,942	02/22/1994	Godfrey	
	A174	US-5,880,454	03/09/1999	Monicault	
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AT	A178	US-6,677,105	01/13/2004	Wang et al.	

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